bs-3729R **[Primary Antibody]**

phospho-PKC gamma (Thr514) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5582 **SWISS:** P05129

Target: PKC gamma (Thr514)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human PKC gamma around the phosphorylation site of Thr514: TR(p-T)FC.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play distinct roles in cells. The protein encoded by this gene is one of the PKC family members. This protein kinase is expressed solely in the brain and spinal cord and its localization is restricted to neurons. It has been demonstrated that several neuronal functions, including long term potentiation (LTP) and long term depression (LTD), specifically require this kinase. Knockout studies in mice also suggest that this kinase may be involved in neuropathic pain development. Defects in this protein have been associated with neurodegenerative disorder spinocerebellar ataxia-14 (SCA14). [provided by RefSeq, Jul 2008]

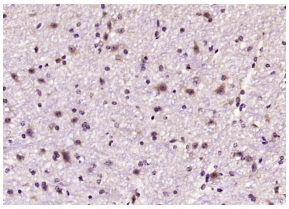
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Cow, Chicken, Horse)

Predicted MW.: 78 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-PKC gamma (Thr514)) Polyclonal Antibody, Unconjugated (bs-3729R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=4.586]** Sanna MD et al. μ Opioid Receptor-Triggered Notch-1 Activation Contributes to Morphine Tolerance: Role of

Neuron–Glia Communication. Mol Neurobiol. 2019 Jul 25. IF,WB ;Mouse. 31347026

- **[IF=3.246]** Xinyi He. et al. Glaesserella parasuis induces IL-17 production might through PKC-ERK/MAPK and IκB/NF-κB signaling pathways. VET MICROBIOL. 2022 Oct;273:109521 WB ;Pig. 35932516